

ABSTRACT

This invention provides compounds and methods for treating, with said compound, a mycobacterial infection by administering to an animal a pharmaceutical composition containing a compound having the formula R-SO_n-Z-CO-Y, where R is an alkyl groups having 6-20 carbon atoms, unsaturated hydrocarbon groups having 6-20 carbon atoms, or alkyl groups having 6-20 carbon atoms interrupted by at least one aromatic ring; Z is -CH₂-, -CH₂CH₂-, -NH-NH-, -O-, -NH-, -O-NH-, -CH₂-NH-, -CH₂-O-, -NH-O-, -NH-CH₂-, -O-CH₂-, and -CH=CH-; Y is -NH₂, -O-CH₂-C₆H₅, -CO-CO-O-CH₃, and -O-CH₃; and n is 1 or 2. It has been discovered that these compounds treat microbially-based infections caused by corynebacteria, nocardiae, rhodococcus, and mycobacteria. These compounds may be used to treat mycobacterial cells, such as *Mycobacteria tuberculosis*, drug resistant *M. tuberculosis*, *M. avium intracellulare*, *M. leprae*, *M. paratuberculosis*, and pathogenic *Mycobacteria* sp.